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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/759,441      | 01/16/2004  | Gary L. Byers        | 22-05-101           | 7842             |

7590 07/09/2004

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EXAMINER

COTTINGHAM, JOHN R

|          |              |
|----------|--------------|
| ART UNIT | PAPER NUMBER |
|----------|--------------|

3679

DATE MAILED: 07/09/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

10/759,441

Applicant(s)

BYERS, GARY L.

Examiner

John R. Cottingham

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 16 January 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>5/17/04</u> . | 6) <input type="checkbox"/> Other: ____.  |

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-~~4~~ are rejected under 35 U.S.C. 102(b) as being anticipated by Wittman et al. U.S. Patent 3,059,952. Wittman et al. shows all of the claimed subject matter of a connector in Figures 1-6.

Regarding claim 1, a connector for connecting a structural member to a boss 13 on a base anchor element 12, said boss 13 having a through bore, said connector comprising; a semi-rigid shaft portion 19 removably received in said bore, stop means 14 for limiting travel of the shaft in one direction through the bore, a terminal end 25 spaced from said shaft for connection to said structural member 27, and a reduced cross sectional extent located between said shaft and said terminal end 25, said connector being of integral construction, said reduced cross sectional extent forming a living hinge between the shaft and the terminal connector 25.

Regarding claim 2, wherein said connector is comprised of semi-rigid molded plastic material (see cross hatching), and said structural member comprises a hollow tubular elastic strap 27, said strap passing over said terminal end 25 to tightly grip the surface thereof.

Regarding claim 3, A restraining device comprising in combination: a restraining member having opposite terminal ends, a base member 12 for connection to the opposite ends of said restraining member, each said base member 12 including means for attachment to a surface on one face and a protruding boss 13 on the opposite face thereof said boss 13 including a through bore, and a connector pin 19 removably received in said bore for connection to a terminal end 25 of said restraining device 27, said connector pin 19 including a shaft portion 15 removably received in said bore, stop means 14 for limiting travel of the shaft in one direction through the bore, a terminal connector 25 on said pin 19 spaced from said shaft for connection to said restraining member 27, and a reduced cross sectional extent located between said shaft and said terminal connector, said connector pin 19 being of integral construction, said reduced cross sectional extent forming a living hinge between the shaft and the terminal connector.

Regarding claim 4, a flexible strap restraining device comprising in combination: a hollow tubular elastic strap 27 having opposite terminal ends, base members 12 for connection to the opposite ends of said strap, each said base member including means 12 for attachment to a surface on one face and an upstanding boss 13 on the opposite face thereof, said boss 13 including a through bore, and a connector pin 19 removably received in said bore for connection to said strap 27, said connector pin 19 including an enlarged head 14 on one end engaging said boss 13 to limit the travel of the pin in the bore, a shaft section extending through said bore, a terminal connector on the other end thereof and a reduced cross sectional extent forming a flexible hinge located between

said shaft and said terminal connector, the terminal end of said strap 27 passing over said terminal connector 25 in a snug fit for gripping action, whereby the gripping action of said strap terminal end is enhanced upon tensioning said elastic strap and said terminal connectors are movable about said flexible hinge.

Regarding claim 5, wherein; said terminal connector has a right circular cylindrical surface, and said flexible strap 27 comprises a hollow elastic tubular member having an inside diameter sized for snugly engaging said tubular connector to grip the surface thereof.

Regarding claim 6, wherein; said connector pin 19 comprises a semi-rigid unitary molded plastic body (see cross hatching).

Regarding claim 7, wherein; said base members comprise suction cups 12, said boss 13 being formed on the surface of said opposite face.

Regarding claim 8, a flexible strap restraining device comprising in combination: a hollow tubular elastic strap 27 having opposite ends for connection to base members 12, suction cup base members 12 for connection to the opposite ends of said strap and attachment to smooth impermeable surfaces, each said suction cup base member 12 including a vacuum retaining cavity on one face and an upstanding boss 13 on the opposite face thereof, said boss 13 including a central longitudinal axis extending normal to said cavity and a through bore extending normal to said longitudinal axis, and a semi-rigid plastic connector pin 19 removably received in said bore for connection to said strap, said connector pin 19 including an enlarged head 14 on one end engaging said boss to limit the travel of the pin in the bore, a shaft section extending through said

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bore, a terminal connector 25 on the other end thereof and a reduced cross sectional extent forming a flexible hinge located between said shaft and said terminal connector, the terminal end of said strap 27 passing over said terminal connector in a snug fit for gripping action, whereby the gripping action of said strap terminal end is enhanced upon tensioning said elastic strap 27 and said terminal connectors are movable about said flexible hinge.

Regarding claim 9, wherein; said terminal connector has a right circular cylindrical surface, and said flexible strap 27 has an inside diameter sized for snugly engaging the cylindrical surface of said terminal connector.

Regarding claim 10, wherein; said connector pin 19 comprises a semi-rigid unitary molded plastic body.

### ***Conclusion***

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Smith U.S. Patent 6,039,971 and Smith Des. 421,556 show similar inventions.


Any inquiry concerning this communication or earlier communications from the examiner should be directed to John R. Cottingham whose telephone number is (703) 306-3439. The examiner can normally be reached on Monday - Thursday, alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel P. Stodola can be reached on (703) 308-2686. The fax phone

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number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



John R. Cottingham  
Primary Examiner  
Art Unit 3679

jrc